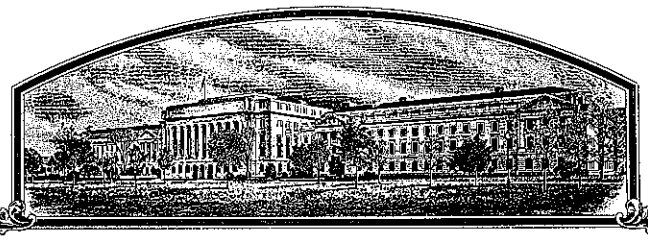

No. 9300023

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Delta and Pine Land Company

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'DP 3733'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this thirty-first day of May in the year of our Lord one thousand nine hundred and ninety-five.

Attest:

Kenneth B. Evans

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

FORM APPROVED: OMB 0581-0055, Expires 1/31/91

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) *(as it is to appear on the Certificate)*
DELTA AND PINE LAND COMPANY

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO.
DPX 3733

3. VARIETY NAME
DP 3733

4. ADDRESS *(street and no. or R.F.D. no., city, state, and ZIP)*
100 Main Street
Scott, Mississippi 38772

5. PHONE *(Include area code)*
(601) 742-3351

FOR OFFICIAL USE ONLY

PVPO NUMBER
9300023

FILING
Date: Nov. 12, 1992
Time: 3:10 ☐ A.M. ☑ P.M.

FEES RECEIVED
Filing and Examination Fee: $2150.00
Date: Nov. 12, 1992
Certificate Fee: $300.00
Date: April 24, 1995

6. GENUS AND SPECIES NAME
Glycine max

7. FAMILY NAME *(Botanical)*
Leguminosae

8. CROP KIND NAME *(Common Name)*
Soybean

9. DATE OF DETERMINATION
1986

10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION *(Corporation, partnership, association, etc.)*
Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION
Delaware

12. DATE OF INCORPORATION

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS
Harry B. Collins
Delta and Pine Land Company
P.O. Box 157
Scott, MS 38772

PHONE *(Include area code)*:

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED *(Follow INSTRUCTIONS on reverse)*

a. ☒ Exhibit A, Origin and Breeding History of the Variety.
b. ☒ Exhibit B, Novelty Statement.
c. ☒ Exhibit C, Objective Description of Variety.
d. ☒ Exhibit D, Additional Description of Variety.
e. ☒ Exhibit E, Statement of the Basis of Applicant's Ownership.
f. ☒ Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant Variety Protection Office _____.
g. ☒ Filing and Examination Fee ($2,150) made payable to "Treasurer of the United States."

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? *(See section 83(a) of the Plant Variety Protection Act.)*
☐ YES *(If "YES," answer items 16 and 17 below)* ☒ NO *(If "NO," skip to item 18 below)*

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☐ YES ☐ NO

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?
☐ YES *(If "YES," through* ☐ Plant Variety Protection Act ☐ Patent Act. Give date: _____ .)
☒ NO

19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?
☒ YES (If "YES," give names of countries and dates) USA / January - June, 1992
☐ NO

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT *(Owner(s))*	CAPACITY OR TITLE	DATE
J. Grover Hanna	Midsouth Soybean Breeder	11-9-92
SIGNATURE OF APPLICANT *(Owner(s))*	CAPACITY OR TITLE	DATE
Harry B. Collins	Vice President Director of Research	11-9-92

EXHIBIT A

DELTA AND PINE LAND COMPANY'S APPLICATION FOR DP 3733

ORIGIN AND BREEDING HISTORY

	1983-	Original cross between A7986 and A5980
Winter	1984-	F_1 grown in lighted hills in winter nursery
Summer Winter	1984- 1985	F_2 advanced to F_4 by modified single seed descent.
Summer	1985-	F_4 populations grown and individual plants pulled.
	1986-	F_5 plant rows grown and selected rows composited. Row 8608923 was determined to be stable and breeding true for characteristics described in this exhibit C of this application. At this time no varients are known at have been observed.
	1987-	8608923 entered in Preliminary yeild tests.
	1988- 1990	Tested in advanced yield tests across midsouth and southeast. Seed increased to 403 units in 1990. Off-type plants were removed from seed stocks in the process of the increase.
	1991-	Tested as DPX 3733 in state experiment station trials. Seed increased to 11,000 units.
	1992-	Released as DP 3733.

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EXHIBIT B
Delta and Pine Land Company's Application for DP 3733

Novelty Statement

DP 3733 is most similar to the variety Braxton. Differences include but are not necessarily restricted to the following:

1) DP 3733 is resistant to Races 3 and moderately resistant to race 14 of soybean cyst nematode (Heterodera glycines) whereas Braxton is susceptible.

2) DP 3733 is resistant to frogeye leaf spot (races unknown) whereas Braxton is susceptible.

3) DP 3733 averaged four (4) days earlier in maturity than Braxton.

4) DP 3733 averages two (2) percent higher protein than Braxton.

5) DP 3733 averages 13.5 grans per 100 seed whereas Braxton averages about 16.8 grams per 100 seed.

FORM APPROVED: OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

EXHIBIT C
(Soybean)

OBJECTIVE DESCRIPTION OF VARIETY
SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
DELTA AND PINE LAND COMPANY	DPX 3733	DP 3733

ADDRESS *(Street and No., or R.F.D. No., City, State, and Zip Code)*

100 Main Street
Scott, Mississippi 38772

FOR OFFICIAL USE ONLY

PVPO NUMBER

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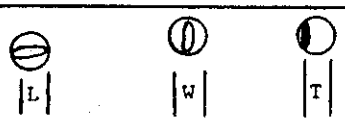
Choose the appropriate response which characterizes the variety in the features described below. When the number of significant digits in your answer is fewer than the number of boxes provided, place a zero in the first box when number is 9 or less (e.g., [0][9]). Starred characters ★ are considered fundamental to an adequate soybean variety description. Other characters should be described when information is available.

1. SEED SHAPE:

[2]



1 = Spherical (L/W, L/T, and T/W ratios = < 1.2)
2 = Spherical Flattened (L/W ratio > 1.2; L/T ratio = < 1.2)
3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)
4 = Elongate Flattened (L/T ratio > 1.2; T/W > 1.2)

★ **2. SEED COAT COLOR: (Mature Seed)**

[1] 1 = Yellow 2 = Green 3 = Brown 4 = Black 5 = Other *(Specify)* _____

3. SEED COAT LUSTER: (Mature Hand Shelled Seed)

[2] 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebsoy'; 'Gasoy 17')

★ **4. SEED SIZE: (Mature Seed)**

[1][3] Grams per 100 seeds

★ **5. HILUM COLOR: (Mature Seed)**

[6] 1 = Buff 2 = Yellow 3 = Brown 4 = Gray 5 = Imperfect Black 6 = Black 7 = Other *(Specify)* _____

★ **6. COTYLEDON COLOR: (Mature Seed)**

[1] 1 = Yellow 2 = Green

★ **7. SEED PROTEIN PEROXIDASE ACTIVITY:**

[1] 1 = Low 2 = High

★ **8. SEED PROTEIN ELECTROPHORETIC BAND:**

[ ] 1 = Type A ($SP1^a$) 2 = Type B ($SP1^b$)

★ **9. HYPOCOTYL COLOR:**

[4] 1 = Green only ('Evans'; 'Davis') 2 = Green with bronze band below cotyledons ('Woodworth'; 'Tracy')
3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71')
4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampton 266A')

★ **10. LEAFLET SHAPE:**

[3] 1 = Lanceolate 2 = Oval 3 = Ovate 4 = Other *(Specify)* _____

4

11. LEAFLET SIZE:

[2] 1 = Small ('Amsoy 71'; 'A5312') 2 = Medium ('Corsoy 79'; 'Gasoy 17')
3 = Large ('Crawford'; 'Tracy')

12. LEAF COLOR:

[3] 1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79'; 'Braxton')
3 = Dark Green ('Gnome'; 'Tracy')

★ **13. FLOWER COLOR:**

[2] 1 = White 2 = Purple 3 = White with purple throat

★ **14. POD COLOR:**

[1] 1 = Tan 2 = Brown 3 = Black

★ **15. PLANT PUBESCENCE COLOR:**

[2] 1 = Gray 2 = Brown (Tawny)

16. PLANT TYPES:

[2] 1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Braxton')
3 = Bushy ('Gnome'; 'Govan')

★ **17. PLANT HABIT:**

[1] 1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will')
3 = Indeterminate ('Nebsoy'; 'Improved Pelican')

★ **18. MATURITY GROUP:**

[1][0] 1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V
9 = VI 10 = VII 11 = VIII 12 = IX 13 = X

★ **19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)**

BACTERIAL DISEASES:

★ [2] Bacterial Pustule *(Xanthomonas phaseoli* var. *sojensis)*

★ [ ] Bacterial Blight *(Pseudomonas glycinea)*

★ [ ] Wildfire *(Pseudomonas tabaci)*

FUNGAL DISEASES:

★ [0] Brown Spot *(Septoria glycines)*

Frogeye Leaf Spot *(Cercospora sojina)*

★ [ ] Race 1 [ ] Race 2 [ ] Race 3 [ ] Race 4 [ ] Race 5 [2] Other *(Specify)* Races unknown

[0] Target Spot *(Corynespora cassiicola)*

[0] Downy Mildew *(Peronospora trifoliorum* var. *manshurica)*

[0] Powdery Mildew *(Microsphaera diffusa)*

★ [0] Brown Stem Rot *(Cephalosporium gregatum)*

[2] Stem Canker *(Diaporthe phaseolorum* var. *caulivora)*

19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) (Continued)

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FUNGAL DISEASES: (Continued)

★ [0] Pod and Stem Blight *(Diaporthe phaseolorum* var; *sojae)*

[0] Purple Seed Stain *(Cercospora kikuchii)*

[0] Rhizoctonia Root Rot *(Rhizoctonia solani)*

Phytophthora Rot *(Phytophthora megasperma* var. *sojae)*

★ [1] Race 1 [ ] Race 2 [ ] Race 3 [ ] Race 4 [ ] Race 5 [ ] Race 6 [ ] Race 7

[ ] Race 8 [ ] Race 9 [ ] Other *(Specify)* _____

VIRAL DISEASES:

[0] Bud Blight (Tobacco Ringspot Virus)

[0] Yellow Mosaic (Bean Yellow Mosaic Virus)

★ [0] Cowpea Mosaic (Cowpea Chlorotic Virus)

[0] Pod Mottle (Bean Pod Mottle Virus)

★ [0] Seed Mottle (Soybean Mosaic Virus)

NEMATODE DISEASES:

Soybean Cyst Nematode *(Heterodera glycines)*

★ [ ] Race 1 [ ] Race 2 [2] Race 3 [ ] Race 4 [2] Other *(Specify)* Race 14 (See Crop Science) 32:275-277.

[1] Lance Nematode *(Hoplolaimus Colombus)*

★ [2] Southern Root Knot Nematode *(Meloidogyne incognita)*

★ [0] Northern Root Knot Nematode *(Meloidogyne Hapla)*

[1] Peanut Root Knot Nematode *(Meloidogyne arenaria)*

[0] Reniform Nematode *(Rotylenchulus reniformis)*

[ ] OTHER DISEASE NOT ON FORM *(Specify)*: _____

20. PHYSIOLOGICAL RESPONSES: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

★ [0] Iron Chlorosis on Calcareous Soil

[1] Other *(Specify)* High Chloride

21. INSECT REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

[1] Mexican Bean Beetle *(Epilachna varivestis)*

[2] Potato Leaf Hopper *(Empoasca fabae)*

[ ] Other *(Specify)* _____

22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant Shape	Braxton	Seed Coat Luster	A5980
Leaf Shape	Braxton	Seed Size	A5980
Leaf Color	Tracy	Seed Shape	A5980
Leaf Size	Braxton	Seedling Pigmentation	A5980

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

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VARIETY	NO. OF DAYS MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100 SEEDS	NO. SEEDS/ POD
				CM Width	CM Length	% Protein	% Oil		
DP 3733 Submitted	142	1.9	89			41.9	20.9	13.5	
Braxton Name of Similar Variety	146	1.9	97			39.6	20.8	16.8	

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A_2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

EXHIBIT D
Delta and Pine Land Company's Application for DP 3733
Additional Description of Variety

Description of DP 3733

DP 3733 is an early group VII soybean maturing about six (6) days earlier than DP 417 and four (4) days earlier than Braxton. It has shown excellent yield potential, standability, disease resistance, and adaptation in the Delta and Southeast. It has purple flowers, tawny pubescence and tan pods. Seeds are shiny yellow with black hila and are of size averaging about 3300-3400 seed per lb. DP 3733 has averaged 7%, 14% and 13% greater yield than H 7126, Braxton and DP 417, respectively in 19 Delta and Pine Land Company tests. It shows excellent resistance to stem canker and frogeye leaf spot and moderate resistance to common root knot nematode and phytophthora root rot. It is resistant to race 3 and moderately resistant to race 14 of soybean cyst nematode. DP 3733 has shown good tolerance to aerial blight.

II. Agronomic Characteristics:

	DPX 3733 (Nominee)	H7126 (Check)	Braxton (Check)	DPX 3720 (Check)
Maturity	-2	0	+2	-1
Plant Height	35	38	38	34
Lodging	1.9	2.5	1.9	2.0
Shattering	Excellent	Excellent	Excellent	Excellent
Seedling Emergence	---------	---------	---------	--------
% Protein	41.9	37.7	39.6	39.2
% Oils	20.9	23.0	20.8	21.6
Seeds/lb.	3350	3350	2875	2975

III. Add Yield Data (as Outlined in Instruction Part B) should be included in table on attached pages.

1989-90 YIELD AND AGRONOMIC DATA SUMMARIES

LINE	YIELD	% YIELD	MAT	HGT	LDG
DPX 3733	50.6	107	-2	35	1.9
DPX 3720	47.9	102	-1	34	2.0
DPX 3776	51.1	108	+3	37	1.8
H 7126	47.1	100	0	38	2.5
Braxton	44.8	95	+2	38	1.9
DP 417	44.2	94	+5	43	2.7
# Locations	19	19	13	14	16

1990 YIELD AND AGRONOMIC DATA SUMMARY

LINE	YIELD	% YIELD	MAT	HGT	LDG
DPX 3733	49.4	108	-1	33	1.8
DPX 3720	47.9	105	0	32	1.9
DPX 3776	50.7	111	+5	36	1.7
H 7126	45.6	100	0	36	2.4
Braxton	45.7	100	+2	36	1.8
DP 417	45.8	100	+6	42	2.7
# Locations	9	9	6	6	8

1989 YIELD AND AGRONOMIC DATA SUMMARY

LINE	YIELD	% YIELD	MAT	HGT	LDG
DPX 3733	51.7	106	-2	37	2.0
DPX 3720	47.8	98	-2	36	2.0
DPX 3776	51.5	106	+1	38	1.9
H 7126	48.6	100	0	40	2.5
Braxton	43.8	90	+1	39	2.0
DP 417	42.5	88	+3	44	2.6
# Locations	10	10	7	8	8

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1988 YIELD AND AGRONOMIC DATA SUMMARY

LINE	YIELD	% YIELD	MAT	HGT	LDG

YIELD SUMMARY

By Region- 1989-90 Yield in BU/A

LINE	MIDSOUTH YIELD	% YIELD	SOUTHEAST YIELD	% YIELD	MEAN YIELD	% YIELD
DPX 3733	51.0	111	49.7	103	50.6	107
DPX 3720	48.7	106	49.0	101	48.9	102
DPX 3776	51.3	112	50.8	105	51.1	108
H 7126	45.9	100	48.4	100	47.1	100
Braxton	44.1	96	45.3	94	44.8	95
DP 417	41.0	89	48.2	100	44.2	94
# Tests	12	12	7	7	19	19

By States- 1989-90

LINE	AR	MS	LA	NC	SC	GA	MEAN
DPX 3733	54.2	57.8	40.2	55.5	51.0	38.9	50.5
DPX 3720	45.9	54.7	37.6	52.7	49.3	40.9	48.8
DPX 3776	54.0	60.2	38.3	51.8	46.5	50.7	51.1
H 7126	49.1	52.4	35.3	51.7	44.0	45.6	46.8
Braxton	44.2	51.0	35.3	45.6	49.5	45.7	44.5
DP 417	36.2	48.3	32.8	50.7	48.3	45.8	43.7
# Tests	3	5	4	4	2	1	

By Soil Type & Disease Situation-1988-90

LINE	LOAM	CLAY	SCN	Stem Canker	Frogeye	Aerial Blight	PRR
DPX 3733	46.8	55.1	49.8	55.0	50.9	---	51.3
DPX 3720	46.9	51.6	41.5	44.0	44.0	---	49.4
DPX 3776	49.2	54.1	38.7	55.7	48.0	---	52.8
H 7126	44.2	51.4	52.5	45.4	46.1	---	41.9
Braxton	45.5	47.0	24.6	41.6	38.9	---	49.2
DP 417	44.2	47.1	38.2	37.4	41.4	---	44.3

1988 - 1990 HEAD TO HEAD COMPARISONS

DPX 3733 versus	H 7126	Braxton	DP 417	DPX 3720
Total Comparisons	19	19	19	19
Won By	3.0 BU	3.7 BU	3.6 BU	2.7 BU
% Wins	74	79	99	74

YIELD BY TEST AND LOCATIONS

1990 075M- YIELD IN BU/A

LINE	Dumas AR	Scott, MS LOAM	Scott, MS CLAY	Lake Prov.	Crowley LA	Kenley NC	Columbia NC	Oswego SC	Arlington GA
DPX 3733	46.8	64.2	62.0	51.0	26.1	44.6	51.4	59.6	38.9
DPX 3720	36.0	61.9	59.8	47.4	28.1	46.6	56.5	53.8	40.9
DPX 3776	43.1	72.2	59.9	51.4	22.5	47.6	59.6	55.0	44.9
H 7126	36.2	57.6	60.3	43.3	27.4	36.9	57.1	53.8	36.0
Braxton	40.1	60.2	55.7	45.5	26.9	40.0	54.2	52.7	36.1
DP 417	35.8	51.1	51.6	41.8	32.5	49.2	54.8	51.6	37.8
CV%	11.7	4.5	7.0	10.3	18.2	12.1	7.9	9.9	15.4

LINE	MEAN
DPX 3733	49.4
DPX 3920	47.9
DPX 3776	50.7
H 7126	45.6
Braxton	45.7
DP 417	45.8
CV%	10.0

1989 976V- YIELD IN BU/A

LINE	Marion AR	Dumas AR	Tunica MS	Indianola MS	Scott MS	Lake Prov. Loam	Lake Prov. Clay	Kenly NC	Columbia NC	Oswego SC
DPX 3733	63.0	52.7	55.3	51.3	56.3	32.9	50.9	61.3	49.8	51.6
DPX 3720	48.6	53.2	47.3	49.4	55.3	30.9	44.0	58.9	41.5	47.4
DPX 3776	65.3	53.7	58.7	52.8	57.2	31.2	48.0	61.3	38.7	48.1
H 7126	55.9	55.1	44.2	41.9	56.0	24.4	46.1	60.1	52.5	42.4
Braxton	42.8	49.8	41.9	49.2	48.0	30.0	38.9	63.4	24.6	46.2
DP 417	35.1	47.6	41.3	44.3	47.4	15.3	41.4	60.5	38.2	42.5
CV%	11.0	8.1	11.4	7.8	7.7	15.4	8.3	18.4	14.7	9.8

LINE	MEAN
DXP 3733	51.6
DPX 3720	47.4
DPX 3776	51.5
H 7126	48.6
Braxton	43.8
DP 417	42.5
CV%	----

1988 V750

LINE	Marion AR	Tunica MS	Greenville MS	Lake Prov. LA	V. Platte LA	Wilson NC	Mean

Root Knot Nematode Reaction

1= no galling 5= severe galling

	M. incognita 1989	M. incognita 1990	M. arenaria 1989	M. arenaria 1990
DP 3733	2.3	1.3	4.0	3.5
DP 3720	1.5	4.0	4.0	5.0
DP 3776	2.8	1.3	4.5	2.0
H 7126	3.5	3.5	4.0	3.0
Braxton	1.8	1.5	4.0	3.0
DP 417	1.0	1.0	3.0	2.0

Location: Hattiesburg, MS

Conducted by: Grady Simpson & Grover Shannon

Dr. Robert Kinloch, Nematologist
University of Florida, Jay, FL.

Stem Canker Reaction

1= none 5= very severe

	Marion, AR 1989	Scott, MS 1990
DP 3733	2.0	1.0
DP 3720	2.5	2.5
DP 3776	1.4	1.0
H 7126	3.1	2.3
Braxton	1.6	1.0
DP 417	2.8	2.8

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Conducted by:
Dr. Chris Tinius

Grady Simpson &
Grover Shannon

Foliar Disease Reaction 1=none 5= very severe

	Frogeye Leaf Spot	
	1989	1990
DPX 3733*	2.0	1.3
DPX 3720	2.7	2.8
DP 3776	1.0	1.0
H 7126	1.0	1.0

	1989	1990
Braxton	3.0	2.7
DP 417	4.0	2.5

Location:
Lake Providence, LA

Conducted by:
Grover Shannon

MISCELLANEOUS: *DPX 3733- Segregating for resistance to frogeye. Two units of DPX 3733 that homozygous resistant to frogeye is available from seed in bulked from resistance purification rows in 1990.

Herbicide Tolerance: DPX 3733 was not tested but showed no obvious sensitivity to Scepter Sencor, and other herbicide applied at various yield test sites.

Iron Cholorosis: Not a problem where DP 3776 is adapted.

Seed Stock: 403 bushels of Foundation Seed
2 units of Breeder Seed with homozygous resistance to frogeye leaf spot.

9300023

EXHIBIT E

DELTA AND PINE LAND COMPANY'S APPLICATION FOR DP 3733

STATEMENT OF APPLICANT'S OWNERSHIP

Delta and Pine Land Company is owner of the soybean variety DP 3733 through purchase of the variety. The variety was developed by an eligible applicant and; therefore, the variety is eligible for protection.